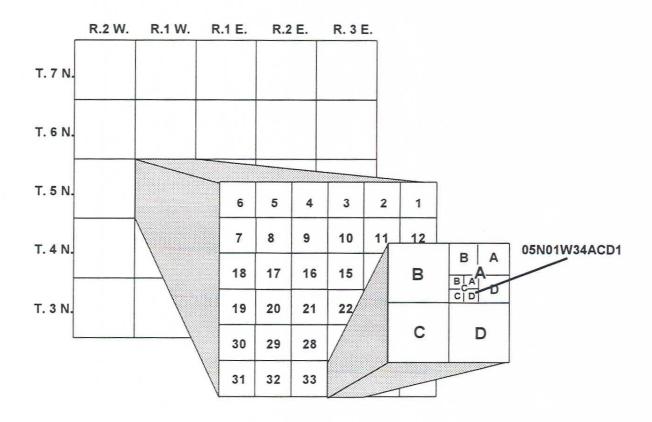
# 1998 Follow-up Studies to Ground Water Contamination Detections

Idaho Department of Health and Welfare Division of Environmental Quality July 1999

## Appendix B

#### **B1.** Well Numbering System

The well numbering system used for this project is based on the United States Public Land Survey. The locations of the wells are within the official rectangular subdivision of public land, with reference to the Boise Baseline and Meridian. The first two segments of the number designate the township (north or south) and range (east or west). The third segment gives sectional number; four letters, which indicate the 1/4 section (160-acre tract), 1/4-1/4 section (40-acre tract), 1/4-1/4 section (10-acre tract), and serial number of the well within the tract. Some locations also include a 1/4-1/4-1/4 section (2 ½-acre tract) letter with in the section number. Quarter sections are designed by the letters A, B, C, and D in counterclockwise order from the northeast quarter of each section. Forty-acre, 10-acre, and 2 ½-acre tracts within each quarter section are lettered in the same manner. Well 05N01W34ACD1 (following figure) is in the SE 1/4, SW 1/4, NE 1/4 of section 34, township 5 north, range 1 west, and was the first well inventoried in that tract (modified from the USGS).



#### B3. Units of Measure for Table B2

Table Eigld	Units
Table Field	Units

Well Location Township, Range and Section 1/4, 1/4, 1/4

Well Depth Feet Below Ground Surface Water Temp

Water Temperature in °C

pH Standard Units (SU)

Sp Cond Specific Conductance in microsiemens per

centimeter (ug/l)

Air Temp
Air Temperature in °C
Sulfate
Milligrams per Liter (mg/l)
Arsenic
Micrograms per Liter (ug/l)

Zinc ug/l
Fluoride mg/l
Selenium ug/l
Atrazine ug/l

TDS Total Dissolved Solids in mg/l

DCPA Dacthal in ug/l

Bentzon ug/l

#### Regulated Primary Constituents discussed in this Report

Constituent	Maximum Contaminant Level (MCL)
Nitrate	10 mg/l
Arsenic	50 ug/l
Fluoride	4 mg/l
Selenium	50 ug/l
Atrazine	3 ug/l

### Regulated Secondary Constituents discussed in this Report

Constituent	MCL
рН	6.5 - 8.5 SU
Sulfate	250 mg/l
Zinc	5000 ug/l
TDS	500 mg/l

Table B4. Sampling Parameters

Parameter EPA Method		Container	Preservation	<b>Holding Time</b>	
Total NO2 + NO3 as N	353.2	Plastic, 1 liter	2 ml/l conc. H2SO4, cool, 4°C	28 days	
Fluoride	300.0	Plastic, 1 liter	cool, 4°C	28 days	
Sulfate as SO4	300.0	Plastic, 1 liter cool, 4°C		28 days	
Arsenic, dissolved	200.9	Plastic, 1 liter	3 ml/l conc. 6 mor HNO3, cool, 4°C		
Selenium, dissolved	200.9	Plastic, 1 liter	3 ml/l conc. HNO3, cool, 4°C		
Zinc, dissolved	200.7	Plastic, 1 liter	c, 1 liter 3 ml/l conc. 28 HNO3, cool, 4°C		
VOC	8021	Amber Glass, 40 ml	Glass, cool, 4°C 28 da		

Table B5. Quality Assurance of Sample Analyses

<u>Parameter</u>	Matrix	EPA Method	Detection Limit (mg/l)	Accur- acy	Precision	Com- plete- ness
Total NO2 + NO3 as N	water	353.2	0.005	80- 120%	+/-15%	95%
Fluoride	water	300.0	0.1	80- 120%	+/-15%	95%
Sulfate as SO4	water	300.0	2	80- 120%	+/-15%	95%
Arsenic, dissolved	water	200.9	0.01	80- 120%	+/-15%	95%
Selenium, dissolved	water	200.9	0.005	80- 120%	+/-15%	95%
Zinc, dissolved	water	200.7	0.002	80- 120%	+/-15%	95%
VOC	water	8021	0.21 ug/l	80- 120%	+/-15%	95%

Table B6. Project Organization and Responsibilities

<b>Project Personnel</b>	Responsibility		
Sampling Supervisor Linda Boyle	Responsibility for supplying and directing field sampling team. Tracks sample custody and results of analyses.		
QA/QC Officer Linda Boyle	Ensures that specified quality control procedures are maintained. Will evaluate documentation and data for possible QA problems.		
Analytical Services Representative Wally Baker and Barry Pharaoh	Oversees all analytical chemists involved in the project.		
Data Management Representative Linda Boyle	Responsible for data entry, storage, and presentation.		